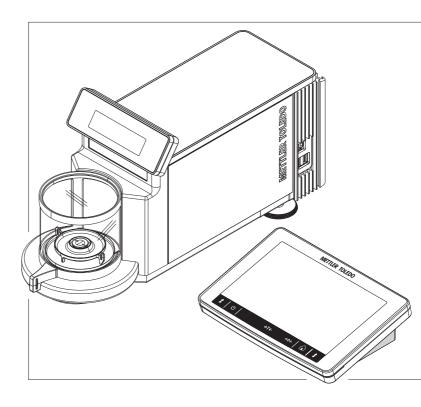
Micro and Ultra-Microbalances

XPR





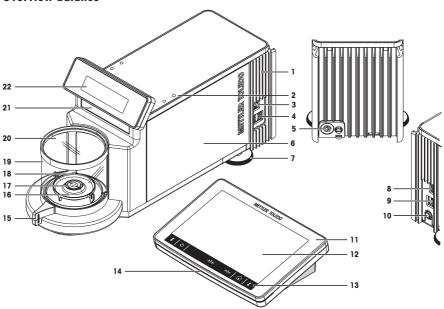


This User Manual provides brief instructions about the first steps to take with the instrument. This ensures safe and efficient handling. Personnel must have carefully read and understood this manual before performing any task.

For full information, always refer to the Reference Manual (RM).

▶ www.mt.com/XPR-micro-RM

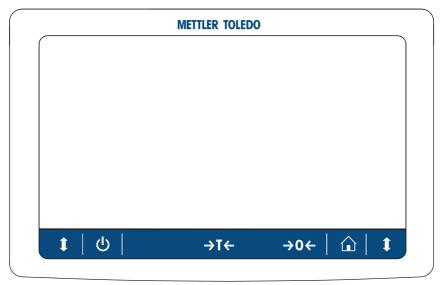
Overview balance



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2	Optical sensor SmartSens	13	Terminal buttons
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4	USB-A ports (to device)	15	Door handle
5	Socket for terminal connection cable	16	Drip tray
6	Weighing unit	17	Weighing pan
7	Leveling foot	18	Weighing chamber
8	USB-A port (to device)	19	Draft shield
9	Ethernet port	20	Draft shield cover
10	Socket for AC/DC adapter	21	Model plate
11	Terminal with protective cover	22	Weighing display (SmartView)

Overview weighing display and terminal





	<u></u>	Standby	→T←	Tare
1	î	Home screen	→0 ←	Zero
	‡	Open/close door	+	Add result

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1 Introduction

Thank you for choosing a METTLER TOLEDO balance. The balance combines high performance with ease of use

Disclaimer for comparators

In this document, the term "balance" is used to describe both balances and comparators.

Comparators are characterized by their higher resolution compared to balances and are mainly used for differential weighing application, such as the calibration of standard weights. Beside standard balance tests, comparators have also been tested with differential repeatability (ABA repeatability) during production.

EULA

The software in this product is licensed under the METTLER TOLEDO End User License Agreement (EULA) for Software.

www mt com/FULA

When using this product you agree to the terms of the EULA.

1.1 Further documents and information

This document is available in other languages online.

www mt com/XPR-microbalances

Instructions for cleaning a balance: "8 Steps to a Clean Balance"

▶ www.mt.com/lab-cleaning-guide

Search for software downloads

www.mt.com/labweighing-software-download

Search for documents

www.mt.com/library

For further questions, please contact your authorized METTLER TOLEDO dealer or service representative.

▶ www.mt.com/contact

1.2 Acronyms and abbreviations

Original term	Explanation
AC	Alternating Current
ASTM	American Society for Testing and Materials
DC	Direct Current
EMC	Electromagnetic Compatibility
FCC	Federal Communications Commission
GWP	Good Weighing Practice
HID	Human Interaction Device
ID	Identification
LED	Light-Emitting Diode
LPS	Limited Power Source
MAC	Media Access Control
MT-SICS	METTLER TOLEDO Standard Interface Command Set
NA	Not Applicable
OIML	Organisation Internationale de Métrologie Légale
	(International Organization of Legal Metrology)
RAM	Random Access Memory
RFID	Radio-frequency identification
RM	Reference Manual
SELV	Safety Extra Low Voltage
SOP	Standard Operating Procedure

SQC Statistical Quality Control

UM User Manual

USB Universal Serial Bus

USP United States Pharmacopeia

1.3 Compliance information

National approval documents, e.g., the FCC Supplier Declaration of Conformity, are available online and/or included in the packaging.

► http://www.mt.com/ComplianceSearch



For further information, consult the Reference Manual (RM).

www mt com/XPR-micro-RM

2 Safety Information

Two documents named "User Manual" and "Reference Manual" are available for this instrument.

- The User Manual is printed and delivered with the instrument.
- The electronic Reference Manual contains a full description of the instrument and its use.
- Keep both documents for future reference.
- Include both documents if you transfer the instrument to other parties.

Only use the instrument according to the User Manual and the Reference Manual. If you do not use the instrument according to these documents or if the instrument is modified, the safety of the instrument may be impaired and Mettler-Toledo GmbH assumes no liability.

2.1 Definitions of signal words and warning symbols

Safety notes contain important information on safety issues. Ignoring the safety notes may lead to personal injury, damage to the instrument, malfunctions and false results. Safety notes are marked with the following signal words and warning symbols:

Signal words

DANGER A hazardous situation with high risk, resulting in death or severe injury if not avoided.

WARNING A hazardous situation with medium risk, possibly resulting in death or severe injury if

not avoided.

CAUTION A hazardous situation with low risk, resulting in minor or moderate injury if not

avoided.

NOTICE A hazardous situation with low risk, resulting in damage to the instrument, other

material damage, malfunctions and erroneous results, or loss of data.

Warning symbols



General hazard



Notice

2.2 Product-specific safety information

Intended use

This instrument is designed to be used by trained staff. The instrument is intended for weighing purposes.

Any other type of use and operation beyond the limits of use stated by Mettler-Toledo GmbH without consent from Mettler-Toledo GmbH is considered as not intended.

Responsibilities of the instrument owner

The instrument owner is the person holding the legal title to the instrument and who uses the instrument or authorizes any person to use it, or the person who is deemed by law to be the operator of the instrument. The instrument owner is responsible for the safety of all users of the instrument and third parties.

Mettler-Toledo GmbH assumes that the instrument owner trains users to safely use the instrument in their workplace and deal with potential hazards. Mettler-Toledo GmbH assumes that the instrument owner provides the necessary protective gear.

Safety notes



⚠ WARNING

Death or serious injury due to electric shock

Contact with parts that carry a live current can lead to death or injury.

- Only use the METTLER TOLEDO power cable and AC/DC adapter designed for your instrument
- 2 Connect the power cable to a grounded power outlet.
- 3 Keep all electrical cables and connections away from liquids and moisture.
- 4 Check the cables and the power plug for damage and replace them if damaged.



NOTICE

Damage to the instrument or malfunction due to the use of unsuitable parts

Only use parts from METTLER TOLEDO that are intended to be used with your instrument.

A list of spare parts and accessories can be found in the Reference Manual.

3 Design and Function



For further information, consult the Reference Manual (RM).

www.mt.com/XPR-micro-RM

3.1 Overview

See the sections "Overview" (graphics and legend) at the very beginning of this manual.

3.2 User interface

3.2.1 Main sections at a glance

The main weighing screen (1) is the central navigation point where all the menus and settings can be found. The **Balance menu** (2), **Methods** (3) and **Results** (4) open when tapping the tabs along the sides of the main weighing screen.



3.2.2 Main weighing screen



	Name	Description
1	User name	Shows the name of the current user.
2	Weighing value field	Shows the current weighing value.
3	Level indicator	Indicates if the balance is leveled (green) or not (red).
4	Methods menu	Accesses the user-defined list of methods, tests, and alignments.

	Name	Description
5	Info weight	Shows the current weighing value in another unit.
6	Warning and error message area	Shows current warning and/or error messages.
7	Results list	Shows the weighing results saved for this task.
8	Sample status OK	Result status indicator green: indicates that the result fulfills a set of criteria. For example:
		The balance is in level.
		The internal adjustment was performed and ok.
		 The weighing result is within the defined tolerance range (only if tolerance is defined).
9	Sample status Excluded	Result status indicator black: indicates that the result was excluded from the Results list .
10	Sample status Not OK	Result status indicator red: indicates that the result criteria are not fulfilled, e.g., "The weighing result was out of the defined tolerances".
11	Button Add result	Adds the result to the Results list . Depending on the selected method, the button can have different functions.
12	Action bar	Contains actions referring to the current task.
13	Balance menu	Accesses the balance properties.
14	Method information area	Contains information about the sample, method or task IDs.
15	SmartTrac	Used as a weighing aid to define a target weight with upper and lower tolerances.
16	Weighing value area	Shows the results of the current weighing process.
17	Method name	Shows the name of the current method.

4 Installation and Putting into Operation

4.1 Selecting the location

A balance is a sensitive precision instrument. The location where it is placed will have a profound effect on the accuracy of the weighing results.

Place indoors on stable

Requirements of the location





Ensure sufficient spacing



Level the instrument



Provide adequate lighting

Avoid direct sunlight Avoid vibrations Avoid strong drafts Avoid temperature fluctuations



Sufficient spacing for balances: $> 15 \ \text{cm}$ all around the instrument

Take into account the environmental conditions. See "Technical Data".

4.2 Unpacking the balance

Open the balance packaging and check for transportation damage or missing parts. Please inform a METTLER TOLEDO service representative in the event of missing or defective parts.

METTLER TOLEDO recommends retaining the original box with its packaging elements. Use the packaging elements to store and to transport the balance.

4.3 Scope of delivery

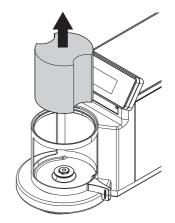
	XPR2	XPR2U	XPR6U	XPR6UD5	XPR10
Weighing unit	1	1	1	1	1
Terminal	1	1	1	✓	1
Terminal connection cable	1	1	1	1	1
Weighing pan Ø 16 mm	-	1	1	-	-
Weighing pan Ø 27 mm	1	-	-	1	1
Hook weighing pan	-	-	1	-	-
Drip tray XPR	1	-	-	/	1
Drip tray XPRU	-	1	1	-	-
Weighing chamber plate	1	1	1	1	1
Draft shield cover glass	1	1	1	1	1
Table set with tweezers, cleaning brush, pen and USB storage device	✓	1	1	✓	✓
AC/DC adapter with country-specific power cable	1	1	1	✓	1
User Manual	1	1	1	1	1
Declaration of Conformity	1	1	1	1	1
Production certificate	/	1	1	1	1

4.4 Installation

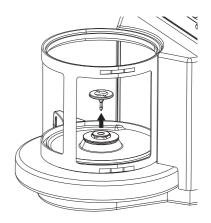
4.4.1 Assembling the balance

4.4.1.1 Preparing the weighing chamber

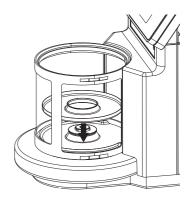
1 Remove the shipping lock from the weighing chamber.



2 Open the weighing chamber door and remove the weighing pan from the weighing chamber.



3 Place the weighing chamber plate into the weighing chamber.

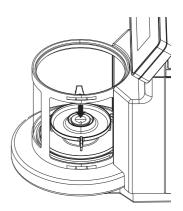


4.4.1.2 Installing the standard weighing pan and drip tray

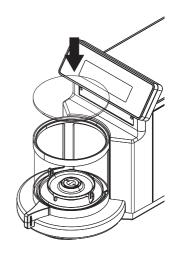
1 Place the weighing pan in the middle of the drip tray.



2 Center the drip tray with the weighing pan in the middle of the weighing chamber.

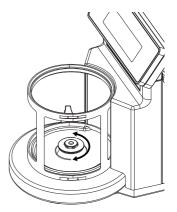


3 Close the weighing chamber and place the draft shield cover glass on top of the weighing chamber.

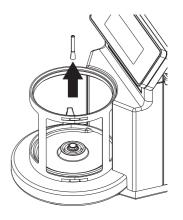


4.4.1.3 Installing the hook weighing pan (only for models XPR6U)

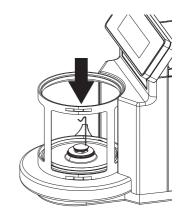
1 Remove the draft shield nut and the reduction disc from the weighing chamber.



- 2 Use tweezers to remove the weighing pan holder.
- 3 Reassemble the draft shield nut and the reduction disc in the weighing chamber.

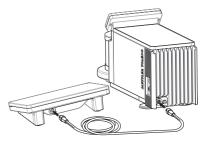


- 4 Install the hook weighing pan in the weighing chamber. Carefully turn the hook weighing pan until it drops slightly down into lock position.
- 5 Close the weighing chamber and place the draft shield cover glass on top of the weighing chamber.



4.4.2 Attaching the terminal

 Use the terminal connection cable to connect the terminal to the weighing unit.



4.5 Putting into operation

4.5.1 Connecting the balance



↑ WARNING

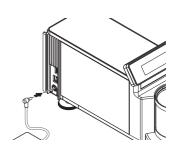
Death or serious injury due to electric shock

Contact with parts that carry a live current can lead to death or injury.

- 1 Only use the METTLER TOLEDO power cable and AC/DC adapter designed for your instrument.
- 2 Connect the power cable to a grounded power outlet.
- 3 Keep all electrical cables and connections away from liquids and moisture.
- 4 Check the cables and the power plug for damage and replace them if damaged.

Connect the balance to the power supply as follows:

- 1 Install the cables in such a way that they cannot be damaged or interfere with operation.
- 2 Insert the plug of the AC/DC adapter in the power inlet of the instrument.
- 3 Secure the plug by firmly tightening the knurled nut.
- 4 Insert the plug of the power cable into a grounded power outlet that is easily accessible.
- ⇒ The balance automatically switches on.
- The draft shield opens and closes for initialization.





Do not connect the instrument to a power outlet controlled by a switch. After switching on the instrument, it must warm up before giving accurate results.

See also

General data ▶ Page 20

4.5.2 Switching on the balance

When connected to the power supply, the balance automatically switches on.

EULA (End User License Agreement)

When the balance is switched on the first time, the EULA (End User License Agreement) appears on the screen.

- Read the conditions.
- 2 Tap I accept the terms in the license gareement, and confirm with JOK.
 - → The main weighing screen appears.

Acclimatization and warm up

Before the balance gives reliable results, it must:

- acclimatize to the room temperature
- · warm up by being connected to the power supply

The acclimatization time and warm-up time for balances and comparators are available in "General data".



■ Note

When the balance is exiting standby, it is ready immediately.

See also

- General data ▶ Page 20
- Entering / Exiting standby mode ➤ Page 14

4.5.3 Leveling the balance

Exact horizontal and stable positioning are essential for repeatable and accurate weighing results.

If the message **Balance** is out of level appears:

- 1 Tap ▶ Level the balance.
 - → The **Leveling aid** opens.
- 2 Follow the instructions from the wizard.

The leveling gid can also be accessed through the **Balance menu**:

Navigation: ▶ Balance menu > ⊙ Leveling aid

4.5.4 Performing an internal adjustment

Navigation: ▼ Methods > 3 Adjustments

- The adjustment Strategy is set to Internal adjustment.
- 1 Open the Methods section, tap 3 Adjustments, select the adjustment, and tap > Start

from the main weighing screen, tap ... More and tap Start adjustment.

- → Internal adjustment is being executed.
- → When the adjustment has been completed, an overview of the adjustment results appears.
- 2 Tap **Print** if you want to print the results.
- 3 Tap J Finish adjustment.
- → The balance is ready.

4.5.5 Entering / Exiting standby mode

- 1 To enter standby mode, hold **(**).
 - The display is dark. The balance is still switched on.
- 2 To exit standby mode, press (1).
 - ⇒ The display is turned on.

4.5.6 Switching off the balance

To completely switch off the balance, it must be disconnected from the power supply. By holding (\mathbf{U}) , the balance goes only into standby mode.



When the balance was completely switched off for some time, it must warm up before it can be used.

See also

Switching on the balance ▶ Page 13

4.6 Performing a simple weighing

4.6.1 Opening and closing the draft shield

 Open the door manually with the door handle or touch the key \$ on the terminal or on the weighing display (SmartView).

The doors can be configured to open and close in different ways.

4.6.2 Zeroing the balance

- 1 Open the draft shield.
- 2 Clear the weighing pan.
- 3 Close the draft shield.
- 4 Press $\rightarrow 0 \leftarrow$ to zero the balance.
- ⇒ The balance is zeroed.

4.6.3 Taring the balance

If a sample vessel is used, the balance must be tared.

- 1 Open the draft shield.
- 2 Clear the weighing pan.
- 3 Close the draft shield.
- 4 Press $\rightarrow 0 \leftarrow$ to zero the balance.
- 5 Open the draft shield.
- 6 Place the sample vessel on the weighing pan.
- 7 Close the draft shield.
- 8 Press \rightarrow **T** \leftarrow to tare the balance.
- → The balance is tared. The icon Net appears.

4.6.4 Performing a weighing

- 1 Open the draft shield.
- 2 Place the weighing object into the sample vessel.
- 3 Close the draft shield.
- 4 Tap + Add result if you want to report the weighing result.
- → The result is added to the Results list.

4.6.5 Completing the weighing

- 1 To save the **Results list**, tap **Complete**.
 - ⇒ The window Complete task opens.

- 2 Select an option to save or print the **Results list**.
 - → The respective dialog opens.
- 3 Follow the instructions from the wizard.
- 4 Tap ✓ Complete.
- ⇒ The **Results list** is saved/printed and then cleared.

4.7 Transporting, packing and storing

4.7.1 Transporting the balance over short distances



NOTICE

Damage to the balance

Do not lift the balance by the glass draft shield. The draft shield is not sufficiently fastened to the balance.

- 1 Disconnect the AC/DC adapter and unplug all interface cables.
- 2 Hold the weighing platform with both hands and carry the balance in horizontal position to the target location. Consider the requirements of the location.

If you want put the balance into operation, proceed as follows:

- 1 Connect in reverse order.
- 2 Level the balance.
- 3 Perform an internal adjustment.

See also

- Selecting the location ▶ Page 7
- Leveling the balance ▶ Page 13
- Performing an internal adjustment ▶ Page 13

4.7.2 Transporting the balance over long distances

METTLER TOLEDO recommends using the original packaging for transportation or shipment of the balance or balance components over long distances. The elements of the original packaging are developed specifically for the balance and its components and ensure maximum protection during transportation.

When packing the balance, make sure that the weighing pan is mounted and the shipping lock (protective insert) is placed in the weighing chamber. The function of the shipping lock is to push the weighing system into fixed position, protecting the weighing cell against transport damage.

4.7.3 Packing and storing

Packing the balance

Store all parts of packaging in a safe place. The elements of the original packaging are developed specifically for the balance and its components, and ensures maximum protection during transportation and storage.

Storing the balance

Only store the balance under the following conditions:

- · Indoor and in the original packaging
- According to the environmental conditions, see "Technical Data"



When storing for longer than 6 months, the rechargeable battery may become empty (only date and time get lost).

See also

Technical Data ▶ Page 20

4.8 Installing devices

4.8.1 Connecting a printer via USB



NOTICE

Damage to the device from not following the instructions of the printer's manual.

To use the printer, consult its User Manual.

- The USB cable is connected to the printer.
- The printer is connected to the power outlet and switched on.
- The main weighing screen is shown on the balance terminal.
- Connect the USB cable (1) to one of the USB-A ports (2) of the balance.
 - The balance detects the printer automatically and the dialog Add device appears.
 - A message, e.g., "System has found a device of type: Printer P-XX" appears.
- 2 Set a name for the printer, then tap \rightarrow **Next**.
 - A message appears, informing the user that the device is ready to use.
- 3 Tap **V OK** to close the dialog.
 - → The printer is connected and saved to the system.
 - ⇒ The dialog Printer settings opens.
- 4 If needed, configure the printer or print a test page.

Adding a printer via the balance settings

Another way to add a printer is through the balance settings.

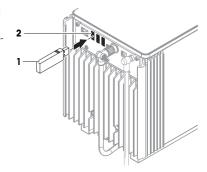
Navigation: ▶ Balance menu > ♥ Settings > ₱ Devices / Printers

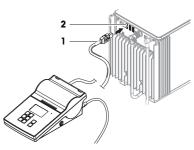
- The USB cable is connected to the printer.
- The printer is connected to the power outlet and switched on.
- 1 Tap + Add device.
 - → The message "Connect the device via USB." appears.
- 2 Connect the device to one of the USB-A ports of the balance.
- 3 Follow the instructions from the wizard.

4.8.2 Connecting a printer via Bluetooth

Navigation: ▶ Balance menu > ♦ Settings > 1/1 Devices / Printers

- The printer is connected to the power outlet and switched on
- 1 Connect the Bluetooth USB adapter (1) to one of the USB-A ports (2) of the balance.





- 2 Connect the Bluetooth RS adaptor (3) to the printer (4).
- 3 Tap +Add device.
 - → The dialog Add device opens.
- 4 Select Bluetooth connection and tap →Next.
 - ⇒ The dialog "Searching for devices..." opens and a list of possible Bluetooth devices is displayed.
- 5 Check the bottom of the Bluetooth RS adapter (3) at the printer for the MAC address (unique device address). select this one in the list and tap →Next.
- 6 The dialog Authentication activated opens and the PIN Code is displayed.
- 7 Tap →Next to confirm the Bluetooth connection.
 - → The dialog closes, the printer is connected to the balance via Bluetooth.
 - → The diglog Printer settings opens.
- 8 If needed, configure the printer or print a test page.



Note

If the USB adapter is removed from the balance and plugged in again, the Bluetooth connection will be detected automatically. This may take up to 30 seconds.



I Note

The balance always pairs with the Bluetooth RS adaptor, but not with the printer that is attached to it. As soon as the user re-uses a Bluetooth RS adaptor for another printer, the user must remove the configured printer in the balance software and add the new one.

4.8.3 Connecting a USB device

This section describes how to connect USB devices without an own power adapter, e.g., an EasyScan USB (RFID reader), a foot switch or an ErgoSens. The connection procedure is the same for all USB devices.

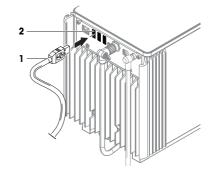


NOTICE

Damage to the device from not following the instructions of the USB device's manual.

To use the USB device, consult its User Manual.

- The USB cable is connected to the USB device.
- The main weighing screen is shown on the balance terminal.
- 1 Connect the USB cable (1) to one of the USB-A ports (2) of the balance.
 - → The balance detects the USB device automatically. The diglog Add device appears, informing the user that the system has found a specific device.
- 2 Set a name for the USB device, then tap → Next.
 - A message appears, informing the user that the device is ready to use.
- 3 Tap **VOK** to close the dialog.
 - → The USB device is connected and saved to the system.



5 Maintenance

To augrantee the functionality of the balance and the accuracy of the weighing results, a number of maintenance actions must be performed by the user.



▶ www.mt.com/XPR-micro-RM

5.1 Maintenance tasks

Maintenance action	Recommended interval	Remarks
Performing an internal adjustment	DailyAfter cleaningAfter levelingAfter changing the location	see "Performing an internal adjustment"
Performing routine tests (eccentricity test, repeata- bility test, sensitivity test). METTLER TOLEDO recommends to at least perform a sensitivity test.	After cleaning After assembling the balance After a software update Depending on your internal regulations (SOP)	see "Tests" in the Reference Manual
Cleaning	After every use After changing the substance Depending on the degree of pollution Depending on your internal regulations (SOP)	see "Cleaning"
Updating the software	Depending on your internal regulations (SOP). After a new software release.	see "Software update" in the Reference Manual

See also

- Performing an internal adjustment ▶ Page 13
- Cleaning ▶ Page 18

5.2 Cleaning

5.2.1 Disassembling for cleaning



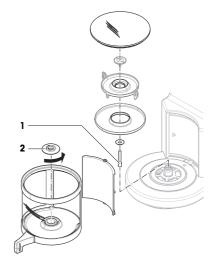
↑ CAUTION

Injury due to sharp objects or broken glass

Instrument components, e.g., glass, can break and lead to injuries.

- Always proceed with focus and care.

- 1 Remove the parts according to the drawing.
- 2 Use tweezers to remove the weighing pan holder (1).
- 3 Unscrew the draff shield nut (2) and remove the draff shield.
- → The balance is ready for cleaning.



5.2.2 Cleaning the balance



NOTICE

Damage to the instrument due to inappropriate cleaning methods

If liquid enters the housing, it can damage the instrument. The surface of the instrument can be damaged by certain cleaning agents, solvents, or abrasives.

- 1 Do not spray or pour liquid on the instrument.
- 2 Only use the cleaning agents specified in the Reference Manual (RM) of the instrument or the guide "8 Steps to a Clean Balance".
- 3 Only use a lightly moistened, lint-free cloth or a tissue to clean the instrument.
- 4 Wipe off any spills immediately.



For further information on cleaning a balance, consult "8 Steps to a Clean Balance".

► www.mt.com/lab-cleaning-guide

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Cleaning around the balance

- Remove any dirt or dust around the balance and avoid further contaminations.

Cleaning the terminal

- Clean the terminal with a damp cloth or a tissue and a mild cleaning agent.

Cleaning the removable parts

 Clean the removed part with a damp cloth or a tissue and a mild cleaning agent or clean in a dishwasher up to 80 °C.

Cleaning the weighing unit

- 1 Disconnect the balance from the AC/DC adapter.
- 2 Use a lint-free cloth moistened with a mild cleaning agent to clean the surface of the balance.
- 3 Remove powder or dust with a disposable tissue first.
- 4 Remove sticky substances with a damp lint-free cloth and a mild solvent, e.g., isopropanol or ethanol 70%.

Micro and Ultra-Microbalances

5.2.3 Putting into operation after cleaning

- Reassemble the balance.
- 2 Check that the draft shield doors (top, sides) open and close normally.
- 3 Check if the terminal is connected to the balance.
- 4 Reconnect the balance to the AC/DC adapter.
- 5 Check the level status, level the balance if necessary.
- 6 Respect the warm-up time specified in the "Technical Data".
- 7 Perform an internal adjustment.
- 8 Perform a routine test according to the internal regulations of your company. METTLER TOLEDO recommends performing a sensitivity test after cleaning the balance.
- 9 Press $\rightarrow 0 \leftarrow$ to zero the balance.
- The balance is ready to be used.

See also

- Leveling the balance ▶ Page 13
- Technical Data ▶ Page 20
- Performing an internal adjustment ▶ Page 13

6 Technical Data

6.1 General data

Power supply

AC/DC adapter (model no. Input: $100 - 240 \text{ V AC} \pm 10\%$, 50 - 60 Hz, 1.8 A

FSP060-DHAN3): Output: 12 V DC, 5 A, LPS, SELV

AC/DC adapter (model no. Input: $100 - 240 \text{ V AC} \pm 10\%$, 50 - 60 Hz, 1.5 A

FSP060-DIBAN2): Output: 12 V DC, 5 A, LPS, SELV Cable for AC/DC adapter: 3-core, with country-specific plug

Balance power consumption: $12 \text{ V DC} \pm 10\%$, 2.25 A

Protection and standards

Overvoltage category: II
Degree of pollution: 2

Standards for safety and EMC: See Declaration of Conformity
Range of application: Use only indoors in dry locations

Environmental conditions

The limit values apply when the balance is used under the following environmental conditions:

Height above mean sea level: Up to 5000 m Ambient temperature: +10 - +30 °C

Temperature change, max.: 5 °C/h

Relative air humidity: 30 - 70%, non-condensing

Acclimatization time: At least 24 hours after placing the instrument in the same

location where it will be put into operation.

Warm-up time: At least **4 hours** after connecting the balance to the power

supply. When switched on from standby, the instrument is ready

for operation immediately.

The balance can be used under the following environmental conditions. However, the weighing performances of the balance may be outside the limit values:

Ambient temperature: $+5 \, ^{\circ}\text{C} - +40 \, ^{\circ}\text{C}$

Relative air humidity: 20% to max. 80% at 31 °C, decreasing linearly to 50% at

40 °C, non-condensing

The balance can be disconnected and stored in its packaging under the following conditions:

Ambient temperature: $-25 - +70 \, ^{\circ}\text{C}$

Relative air humidity: 10 - 90%, non-condensing

Environmental conditions for comparators

Comparators need to be used under the following environmental conditions to reach the specified perfor-

mances:

Air speed, max.: 0.15 m/s

7 Disposal

In conformance with the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.



Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment. If you have any questions, please contact the responsible authority or the distributor from which you purchased this device. Should this device be passed on to other parties, the content of this regulation must also be related.



Good Weighing Practice™

 $\mathsf{GWP}^{\text{\tiny{(0)}}}$ is the global weighing standard, ensuring consistent accuracy of weighing processes, applicable to all equipment from any manufacturer It helps to:

- Choose the appropriate balance or scale
- Calibrate and operate your weighing equipment with security
- Comply with quality and compliance standards in laboratory and manufacturing

www.mt.com/GWP

	www.m	t.com/	xpr-m	icroba	lances
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For more information

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